

10/549268

Amendments to the Claims:

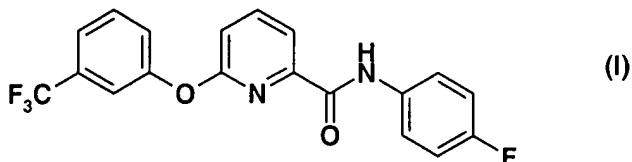
JC17 Rec'd PCT/PTO 13 SEP 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A synergistic herbicidal mixture comprising

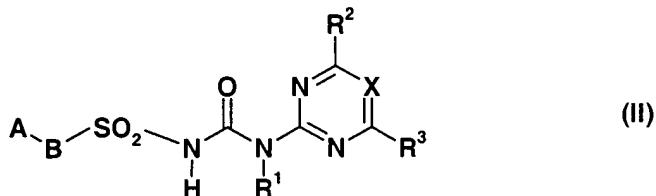
A) picolinafen (I)



or one of its environmentally compatible salts;

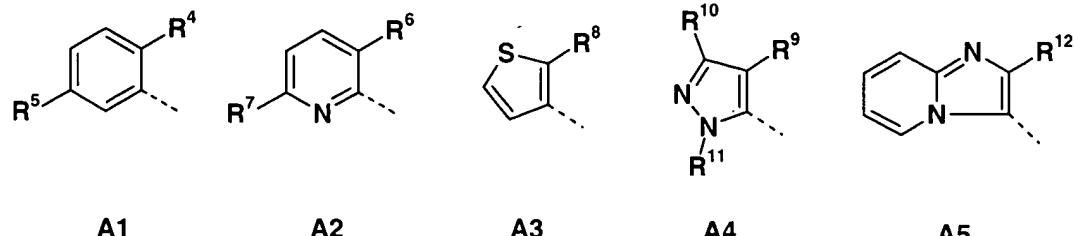
and

B) a synergistically effective amount of at least a one sulfonylurea of formula II



wherein

A is A1, A2, A3, A4 or A5



wherein

R⁴ is halogen, C₁-C₄-haloalkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₂-alkoxy-C₁-C₄-alkoxy, cyclopropylcarbonyl, di(C₁-C₄-alkyl)-aminocarbonyl or hydroxycarbonyl;

R⁵ is hydrogen, halogen or C₁-C₄-alkylsulfonylamino-C₁-C₄-alkyl;

R⁶ is hydroxycarbonyl or C₁-C₄-alkylsulfonyl;

R⁷ is hydrogen or C₁-C₄-haloalkyl;

R⁸ is hydroxycarbonyl;

R⁹ is 2-methyl-tetrazol-5-yl or hydroxycarbonyl;

R¹⁰ is hydrogen or halogen;

R¹¹ is C₁-C₄-alkyl;

R¹² is halogen or C₁-C₄-alkylsulfonyl;

B is -O-, -NH-, -CH₂- or a bond;

R¹ is hydrogen or C₁-C₄-alkyl;

R² is halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylamino or di(C₁-C₄-alkyl)amino;

R³ is C₁-C₄-alkyl, C₁-C₄-haloalkoxy or C₁-C₄-alkoxy;

X is CH or N;

or one of its environmentally compatible salts or esters;

and, if desired,

C) at least a safener selected from the group consisting of dichlormid, benoxacor, LAB 145 138, MG-191, furilazole, cyometrinil, oxabetrinil, fluxofenim, flurazole, naphthalic acid anhydride, fenclorim, fenchlorazole-ethyl, mefenpyr, isoxa-difen, cloquintocet, 1-ethyl-4-hydroxy-3(1H-tetrazol-5-yl)-1H-quinolin-2-one, 4-carboxymethyl-chroman-4-carboxylic acid, N-

(2-methoxybenzyl)-4-(3-methylureido)-benzenesulfonamide and (3-oxo-isothio-chroman-4-ylidenmethoxy)acetic acid methyl ester;

or one of its an environmentally compatible salts, esters or amides thereof.

2. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea of formula II, wherein

A is A1, wherein

R⁴ is halogen, C₁-C₃-haloalkyl, C₁-C₂-alkoxy, C₁-C₂-halo-alkoxy, C₁-C₂-alkoxy-C₁-C₂-alkoxy cyclopropylcarbonyl, di(C₁-C₂-alkyl)amino-carbonyl, hydroxycarbonyl or methoxycarbonyl, ethoxycarbonyl or oxetan-3-yloxycarbonyl;

R⁵ is hydrogen, halogen, or C₁-C₂-alkylsulfonylamino-C₁-C₂-alkyl;

R¹ is hydrogen; or C₁-C₂-alkyl;

R² is halogen, C₁-C₂-alkyl, C₁-C₂-haloalkyl, C₁-C₂-alkoxy, C₁-C₂-haloalkoxy, C₁-C₂-alkylamino, or di(C₁-C₂-alkyl)-amino;

R³ is C₁-C₂-alkyl, C₁-C₃-alkoxy, or C₁-C₂-haloalkoxy;

X is CH or N;

or one of its environmentally compatible salts;

3. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as a component B) at least a one sulfonylurea of formula II, wherein

A is A2, wherein

R⁶ is C₁-C₂-alkylsulfonyl, hydroxycarbonyl or methoxycarbonyl;

R⁷ is hydrogen or C₁-C₂-haloalkyl;

B is a bond;

R¹ is hydrogen;

R² is C₁-C₂-alkoxy;

R³ is C₁-C₂-alkoxy;

X is CH;

or one of its environmentally compatible salts;

4. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea of formula II wherein

A is A3, wherein

R⁸ is hydroxycarbonyl or methoxycarbonyl;

B is a bond;

R¹ is hydrogen;

R² is C₁-C₂-alkyl;

R³ is C₁-C₂-alkoxy;

X is CH;

or one of its environmentally compatible salts.

5. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea of formula II wherein

A is A4, wherein

R⁹ is 2-methyl-tetrazol-5-yl, hydroxycarbonyl, methoxycarbonyl or ethoxycarbonyl;

R¹⁰ is hydrogen, or halogen;

R¹¹ is C₁-C₂-alkyl;

B is a bond;

R¹ is hydrogen;

R² is C₁-C₂-alkoxy;

R³ is C₁-C₂-alkoxy;

X is CH;

or one of its environmentally compatible salts.

6. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea of formula II wherein

A is A5, wherein

R¹² is halogen , preferably chlorine; or C₁-C₂-alkyl-sulfonyl;

B is a bond;

R¹ is hydrogen;

R² is C₁-C₂-alkoxy;

R³ is C₁-C₂-alkoxy;

X is CH;

or one of its environmentally compatible salts.

7. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea selected from the group consisting of azimsulfuron, bensulfuron, chlorimuron, chlorsulfuron, cinosulfuron, cyclosulfamuron, ethametsulfuron, ethoxysulfuron, flazasulfuron, flupyrssulfuron, halosulfuron, imazosulfuron, iodosulfuron, mesosulfuron, metsulfuron, nicosulfuron, primisulfuron, prosulfuron, pyrazosulfuron,

rimsulfuron, sulfometuron, sulfosulfuron, thifensulfuron, triasulfuron, tribenuron, triflusulfuron, trifloxsulfuron or and tritosulfuron, or its an environmentally compatible salts or esters thereof.

8. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea selected from the group consisting of azimsulfuron, bensulfuron, chlorimuron, chlorsulfuron, cyclosulfamuron, ethametsulfuron, ethoxysulfuron, flazasulfuron, flupyrifluoruron, halosulfuron, imazosulfuron, metsulfuron, nicosulfuron, primisulfuron, prosulfuron, pyrazosulfuron, rimsulfuron, sulfometuron, sulfosulfuron, thifensulfuron, triasulfuron, tribenuron, triflusulfuron, trifloxsulfuron or and tritosulfuron, or its an environmentally compatible salts or esters thereof.
9. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea selected from the group consisting of azimsulfuron, bensulfuron, chlorimuron, chlorsulfuron, cyclosulfamuron, ethametsulfuron, ethoxysulfuron, flazasulfuron, halosulfuron, imazosulfuron, nicosulfuron, primisulfuron, prosulfuron, pyrazosulfuron, rimsulfuron, sulfometuron, triasulfuron or and triflusulfuron, or its an environmentally compatible salts or esters thereof.

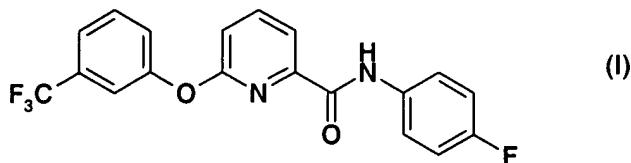
10. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea selected from the group consisting of chlorsulfuron, flupyrifluron, iodosulfuron, mesosulfuron, metsulfuron, prosulfuron, sulfosulfuron, thifensulfuron, triasulfuron, tribenuron, or and tritosulfuron, or its an environmentally compatible salts or esters thereof.
11. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea selected from the group consisting of chlorsulfuron, flupyrifluron, metsulfuron, prosulfuron, sulfosulfuron, thifensulfuron, triasulfuron, tribenuron, or and tritosulfuron, or its an environmentally compatible salts or esters thereof.
12. (Currently Amended) A synergistic herbicidal mixture as claimed in claim 1 comprising, as component B) at least a one sulfonylurea selected from the group consisting of chlorsulfuron, prosulfuron or and triasulfuron, or its an environmentally compatible salts or esters thereof.
13. (Currently Amended) A synergistic herbicidal mixture as claimed in any of claims 1 to 12 claim 1 comprising, as a component C) at least cloquintocet, isoxadifen or mefenpyr;

14. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 13 comprising claim 1~~, additionally comprising as component D) at least an acetyl-CoA carboxylase inhibitor (ACC), acetolactate synthase inhibitor (ALS), amide, auxin herbicide, auxin transport inhibitor, carotenoid biosynthesis inhibitor, enolpyruvylshikimate 3-phosphate synthase inhibitor (EPSPS), glutamine synthetase inhibitor, lipid biosynthesis inhibitor, mitosis inhibitor, protoporphyrinogen IX oxidase inhibitor, photosynthesis inhibitor, synergist, growth substance, cell wall biosynthesis inhibitor or another herbicide.
15. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 14~~ claim 1 comprising, as active ingredients only picolinafen and one compound of group B).
16. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 14~~ claim 1 comprising, as active ingredients only picolinafen, one compound of group B) and one compound of group C).
17. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 16~~ claim 1 wherein the ratios of the compounds of the groups A) and B) range from 1:0.0002 to 1:50.

18. (Currently Amended) A synergistic herbicidal mixture as claimed in ~~any of claims 1 to 14 or 16~~ claim 1 wherein the ratios of the compounds of the groups A) and C) range from 1:0.0002 to 1:50.
19. (Currently Amended) A herbicidal composition comprising a herbicidally active amount of a synergistic herbicidal mixture as claimed in ~~any of claims 1 to 18~~ claim 1, at least one liquid and/or solid carrier and, if desired, at least one surfactant.
20. (Currently Amended) A process for the preparation of a herbicidal composition as claimed in claim 18, comprising mixing wherein the compounds of group A), B), if desired, C), if desired, D), at least one liquid and/or solid carrier and, if desired, at least one surfactant ~~are mixed~~.
21. (Currently Amended) A method for controlling undesired vegetation, which comprises applying to undesired plants a synergistic herbicidal mixture as claimed in ~~any of claims 1 to 18~~ claim 1, during and/or after the emergence of the undesired plants, it being possible for the active compounds of the groups A), B), if desired, C) and, if desired D) to be applied simultaneously or in succession.
22. (New) A method for controlling undesired vegetation comprising simultaneously or

successively applying to undesired plants, their habitation or their seeds

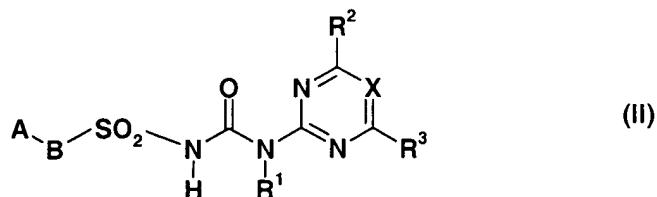
A) picolinafen (I)



or one of its environmentally compatible salts;

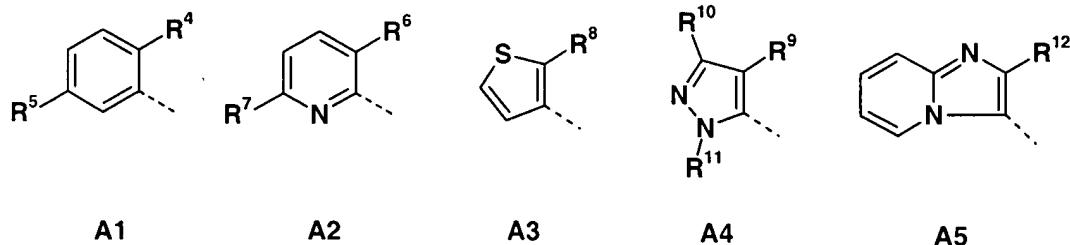
and

B) a synergistically effective amount of at least one sulfonylurea of formula II



wherein

A is A1, A2, A3, A4 or A5



wherein

R⁴ is halogen, C₁-C₄-haloalkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₂-alkoxy-C₁-C₄-alkoxy, cyclopropylcarbonyl, di(C₁-C₄-alkyl)-aminocarbonyl or hydroxycarbonyl;

R⁵ is hydrogen, halogen or C₁-C₄-alkylsulfonylamino-C₁-C₄-alkyl;

R⁶ is hydroxycarbonyl or C₁-C₄-alkylsulfonyl;

R⁷ is hydrogen or C₁-C₄-haloalkyl;

R⁸ is hydroxycarbonyl;

R⁹ is 2-methyl-tetrazol-5-yl or hydroxycarbonyl;

R¹⁰ is hydrogen or halogen;

R¹¹ is C₁-C₄-alkyl;

R¹² is halogen or C₁-C₄-alkylsulfonyl;

B is -O-, -NH-, -CH₂- or a bond;

R¹ is hydrogen or C₁-C₄-alkyl;

R² is halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkoxy, C₁-C₄-alkylamino or di(C₁-C₄-alkyl)amino;

R³ is C₁-C₄-alkyl, C₁-C₄-haloalkoxy or C₁-C₄-alkoxy;

X is CH or N;

or one of its environmentally compatible salts or esters;

and, if desired,

C) at least a safener selected from the group consisting of dichlormid, benoxacor, LAB 145 138, MG-191, furilazole, cyometrinil, oxabetrinil, fluxofenim, flurazole, naphthalic acid anhydride, fenclorim, fenchlorazole-ethyl, mefenpyr, isoxa-difen, cloquintocet, 1-ethyl-4-hydroxy-3(1H-tetrazol-5-yl)-1H-quinolin-2-one, 4-carboxymethyl-chroman-4-carboxylic acid, N-(2-methoxybenzyl)-4-(3-methylureido)-benzenesulfonamide and (3-oxo-isothio-chroman-4-ylidenmethoxy)acetic acid methyl ester;

or one of its environmentally compatible salts, esters or amides.